

MR-1 CHECK OFF LIST FOR NON-CATEGORICAL COMPANIES**ST. MARY'S HOSPITAL**# 262100⁴⁵**1. Month of JUNE 1, 2008 THRU JUNE 30, 2008**

- | | | | | |
|-----|----------------------------------------------------------------------------|------------------------------------|------------------------------------|-----|
| 2. | Is Outlet # (8 digit) Correct? | <input checked="" type="radio"/> Y | N | N/A |
| 3. | Is average Total flow-gal.day stated in space provided? | <input checked="" type="radio"/> Y | N | N/A |
| 4. | Is max. Total flow-gal day stated in space provided? | <input checked="" type="radio"/> Y | N | N/A |
| 5. | Is method used to calculate water stated? | <input checked="" type="radio"/> Y | N | N/A |
| 6. | Are number of working days stated? | <input checked="" type="radio"/> Y | N | N/A |
| 7. | Are there any parameters which have exceeded PVSC Local Limits? | Y | <input checked="" type="radio"/> N | N/A |
| 8. | Is proper compliance/non-compliance statement provided? | <input checked="" type="radio"/> Y | N | N/A |
| 9. | Have correct number of samples been submitted? | <input checked="" type="radio"/> Y | N | N/A |
| 10. | Has PHC result been listed on MR-1 report? | Y | <input checked="" type="radio"/> N | N/A |
| 11. | Has sample number been reported in space provided? | <input checked="" type="radio"/> Y | N | N/A |
| 12. | Have all regulated parameters been listed on MR-1? | <input checked="" type="radio"/> Y | N | N/A |
| 13. | Has sample type been stated on MR-1? | <input checked="" type="radio"/> Y | N | N/A |
| 14. | Have all samples been taken during this reporting period? | <input checked="" type="radio"/> Y | N | N/A |
| 15. | Has NJDEPE certified lab been used? | <input checked="" type="radio"/> Y | N | N/A |
| 16. | Have analytical results been submitted on copies of Laboratory stationery? | <input checked="" type="radio"/> Y | N | N/A |
| 17. | Have results been written in space designated on MR-1? | <input checked="" type="radio"/> Y | N | N/A |
| 18. | Is correct method used to preserve samples stated on MR-1? | <input checked="" type="radio"/> Y | N | N/A |
| 19. | Has MR-1 been signed by authorized representative? | <input checked="" type="radio"/> Y | N | N/A |
| 20. | Has information been submitted on proper MR-1 form? | <input checked="" type="radio"/> Y | N | N/A |
| 21. | Remove Arsenic from report if sampling not required | <input checked="" type="radio"/> Y | N | N/A |

MR-1 CHECK OFF LIST FOR NON-CATEGORICAL COMPANIES

First Reviewer: comments on deficiencies

*Complete*Date Reviewed 7/29/08 Date sent to user

Date due back Reviewer

J. Huchard

Second review comments on deficiencies

Date Reviewed Date sent to user

Date due back Reviewer

Date Reviewer

PRETREATMENT MONITORING REPORT

NAME : ST. MARY'S HOSPITAL

MAILING ADDRESS: 350 Boulevard, Passaic, NJ 07055

FACILITY LOCATION: 350 Boulevard, Passaic, NJ 07055

CATEGORY & SUBPART: 460

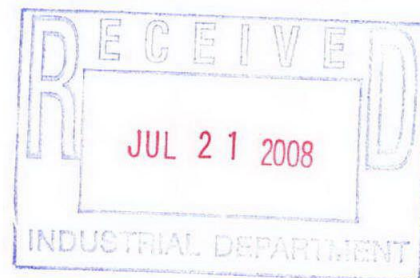
OUTLET #: 1

CONTACT OFFICIAL: Martin Romanik

TELEPHONE #: (973) 365-5134

NEW CUSTOMER ID/ OUTLET ID: 26210045

OLD OUTLET DESIGNATION: 26210003



| MONITORING RECORD | | | | | |
|-------------------|-----|------|-----|-----|------|
| START | | | END | | |
| 6 | 1 | 2008 | 6 | 30 | 2008 |
| MO. | DAY | YR. | MO. | DAY | YR. |

Regulated Flow-gal/day

Total Flow-gal/day

Average

N/A

167,962

Maximum

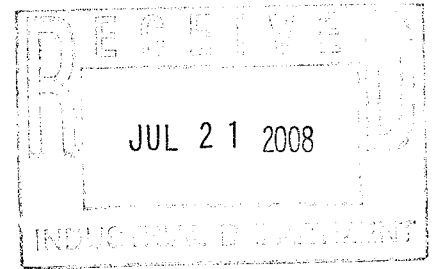
N/A

184,758

Method Used: Meter Readings Divided by **30** days.

Production Rate (if applicable)

| PARAMETER | | MASS LIMIT OR CONCENTRATION | | | #OF SAMPLES | SAMPLE TYPE |
|-----------|--------------------|-----------------------------|---------|-------|-------------|-------------|
| | | AVERAGE | MAXIMUM | UNITS | | |
| Zinc | Sample Measurement | 0.101 | 0.101 | ppm | 1 | COMP |
| | Permit Requirement | 1.67 | 1.67 | ppm | | |
| | | | | | | |
| | | | | | | |



Certification of Non-use if applicable (use additional sheets): N/A

Compliance or non-compliance statement with compliance schedule (use additional sheets if necessary for every parameter used. PBI Regional Medical Center Hospital is in compliance with the PVSC local limits

Explain Method for preserving samples: Laboratory preserved with 5ml nitric acid to a pH of <2

I certify under penalty of law that this document and attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

403.6(a)(2)(ii) revised by 53 FR 40610, October 17, 1988

Signature of Principal
Executive or Authorized Agent

Joseph W. Pilewski

Vice President Enviro-Sciences, Inc
Type Name and Title

18-Jul-08
Date

Water Discharge Calculation Sheet

ST. MARY'S HOSPITAL (PBI)

JUNE 2008

| | |
|--------------------------------------------------|-----------|
| Total water used from meter reading (Cubic feet) | 709,100 |
| x 7.48 (gallons / cubic foot) | |
| Total Usage (Gallons) | 5,304,068 |
| Evaporation (Gallons) 5% evaporation * | 265,203 |
| Volume Discharged (Gallons) | 5,038,865 |

| | |
|-----------------------------------|---------|
| Volume Discharged For Month | |
| Daily Average Discharge (Gallons) | 167,962 |
| Daily Maximum Discharge (Gallons) | 184,758 |

Month 6
Last day 30

* NOTE: In the months of January, February and March the PVSC DOES NOT ALLOW a reduction for evaporation.

| | | | | | | |
|----------------|----------------|----------------|----------------|--------------|--------------|---------------|
| 70027224 | 70027225 | 70029946 | 60144298 | | | |
| <u>Meter 1</u> | <u>Meter 2</u> | <u>Meter 3</u> | <u>Meter 4</u> | <u>Total</u> | <u>x 100</u> | <u>x 7.48</u> |
| 1,990 | 3,166 | 1,765 | 170 | 7,091 | 709,100 | 5,304,068 |

| | <u>Reading Date</u> | | <u>CF1</u> | <u>CF2</u> | <u>Consumption (100 cu.ft.)</u> |
|---------|---------------------|-------|------------|------------|---------------------------------|
| Meter 1 | 7/11/08 | | 3,844.00 | 1,549.00 | |
| | 6/12/08 | | 2,654.00 | 1,541.00 | |
| | | C - L | 1,190.00 | 8.00 | |
| | | | x 1 | x 100 | |
| | | | 1,190.00 | 800.00 | 1,990.00 |
| Meter 2 | 7/11/08 | | 9,731.00 | 1,202.00 | |
| | 6/12/08 | | 8,465.00 | 1,183.00 | |
| | | C - L | 1,266.00 | 19.00 | |
| | | | x 1 | x 100 | |
| | | | 1,266.00 | 1,900.00 | 3,166.00 |
| Meter 3 | 7/11/08 | | 1,791.00 | 7,458.00 | |
| | 6/12/08 | | 816.00 | 7,379.00 | |
| | | C - L | 975.00 | 79.00 | |
| | | | x 1 | x 10 | |
| | | | 975.00 | 790.00 | 1,765.00 |
| Meter 4 | 7/11/08 | | 2,278.00 | | |
| | 6/12/08 | | 2,261.00 | | |
| | | C - L | 17.00 | | |
| | | | x 10 | | |
| | | | 170.00 | | 170.00 |



ANALYTICAL DATA REPORT

ESI, INC.
111 Howard Blvd
Suite 108
Mount Arlington, NJ 07856

Project Name: **ST. MARY'S HOSPITAL (PBI)-R8MM**
IAL Case Number: **E08-06330**

These data have been reviewed and accepted by:

A handwritten signature in black ink, appearing to read "Michael Leftin". The signature is written in a cursive, flowing style.

Michael H. Leftin, Ph.D.
Laboratory Director

273 Franklin Road
Randolph, NJ 07869
Phone: 973 361 4252
Fax: 973 989 5288



IAL is a NELAC New Jersey Certified Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Rhode Island (00126), Pennsylvania (68-00773) and in the Department of Navy IR QA Program

Sample Summary

*IAL Case No.***E08-06330***Client* ESI, INC.*Project* ST. MARY'S HOSPITAL (PBI)-R8MM*Received On* 6/ 5/2008@10:30

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Depth Top/Bottom</u> | <u>Sampling Time</u> | <u>Matrix</u> | <u># of Container</u> |
|---------------|-------------------------|-------------------------|----------------------|---------------|---------------------------|
| 06330-001 | SMP-0608 | n/a | 6/ 5/2008@08:45 | Aqueous | 1 |

INTEGRATED ANALYTICAL LABORATORIES, LLC.**TABLE OF CONTENTS**

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| Metals | 6 |
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| Calibration Summary | |
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* Methodology is included in the IAL Project Information Page

INTEGRATED ANALYTICAL LABORATORIES, LLC.**MATRIX QUALIFIERS**

- A -** Indicates the sample is an Aqueous matrix.
- O -** Indicates the sample is an Oil matrix.
- S -** Indicates the sample is a Soil, Sludge or Sediment matrix.
- X -** Indicates the sample is an Other matrix as indicated by Client Chain of Custody.

DATA QUALIFIERS

- B -** Indicates the analyte was found in the Blank and in the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of the analyte.
- C -** Common Laboratory Contaminant.
- D -** The compound was reported from the Diluted analysis.
- D.F. -** Dilution Factor.
- E -** Estimated concentration, reported results are outside the calibrated range of the instrument.
- J -** Indicates an estimated value. The compound was detected at a value below the method detection limit but greater than zero. For GC/MS procedures, the mass spectral data meets the criteria required to identify the target compound.
- MDL -** Method Detection Limit.
- MI -** Indicates compound concentration could not be determined due to Matrix Interferences.
- NA -** Not Applicable.
- ND -** Indicates the compound was analyzed for but Not Detected at the MDL.

REPORT QUALIFIERS

All solid sample analyses are reported on a dry weight basis.

All solid sample values are corrected for original sample size and percent solids.

- Q -** Qualifier

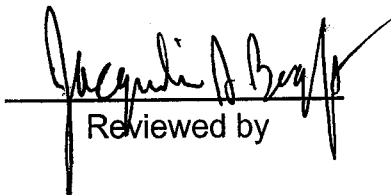
00001

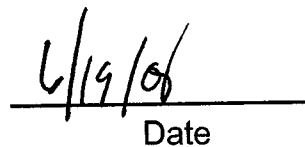
INTEGRATED ANALYTICAL LABORATORIES, LLC.**CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received one (1) aqueous sample(s) from ESI, INC.
(Project: ST. MARY'S HOSPITAL (PBI)-R8MM) on June 5, 2008 for the analysis of:

(1) Metal - Zinc

A review of the QA/QC measures for the analysis of the sample(s) contained in this report
has been performed by:


Reviewed by


Date

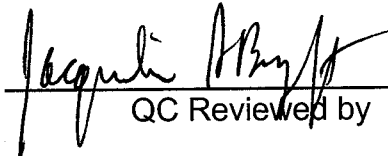
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INTEGRATED ANALYTICAL LABORATORIES, LLC.

LABORATORY DELIVERABLES CHECK LIST

Lab Case Number: E08-06330

| | Check If Complete |
|----------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Cover Page, Title Page listing Lab Certification #, facility name & address and date of report preparation. | <u>✓</u> |
| 2. Table of Contents. | <u>✓</u> |
| 3. Summary Sheets listing analytical results for all targeted and non-targeted compounds. | <u>✓</u> |
| 4. Summary Table cross-referencing Field ID's vs. Lab ID's. | <u>✓</u> |
| 5. Document bound, paginated and legible. | <u>✓</u> |
| 6. Chain of Custody. | <u>✓</u> |
| 7. Methodology Summary. | <u>✓</u> |
| 8. Laboratory Chronicle and Holding Time Check. | <u>✓</u> |
| 9. Results submitted on a dry weight basis (if applicable). | <u>✓</u> |
| 10. Method Detection Limits. | <u>✓</u> |
| 11. Lab certified by NJDEP for parameters or appropriate category of parameters or a member of the USEPA CLP. | <u>✓</u> |
| 12. NonConformance Summary. | <u>✓</u> |


QC Reviewed by

6/19/08
Date

0003

**INTEGRATED ANALYTICAL LABORATORIES
CONFORMANCE/NONCONFORMANCE SUMMARY
METAL ANALYSIS**

Lab Case Number: E08-06330

| | <u>No</u> | <u>Yes</u> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
| 1. Calibration Summary Meet Criteria. | <u> </u> | <u>✓</u> |
| 2. ICP Interference Check Sample Results Meets Criteria (if applicable) | <u> </u> | <u>NA</u> |
| 3. Serial Dilution/Post Spike Summary Submitted (if applicable) / Meets Criteria | <u> </u> | <u>✓</u> |
| 4. Internal Standards Meet Criteria (if applicable) | <u> </u> | <u>✓</u> |
| 5. Laboratory Control Sample Summary Submitted (if applicable) / Meets Criteria | <u> </u> | <u>✓</u> |
| 6. Blank Contamination: If yes, list compounds and concentrations in each blank: | <u>✓</u> | <u> </u> |
| <hr/> | | |
| 7. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. (If not, list those compounds and their recoveries which fall outside the acceptable range). | <u> </u> | <u>✓</u> |
| 8. Extraction Holding Time Met. If not, list number of days exceeded for each sample: | <u> </u> | <u>✓</u> |
| <hr/> | | |
| 9. Analysis Holding Time Met. If not, list number of days exceeded for each sample: | <u> </u> | <u>✓</u> |

Additional Comments:

Sample(s) used for aqueous metals analyses contained varying levels of sediment. Precautions were taken to use an aqueous representative of the sample. However, our experience has demonstrated that samples of this nature are very difficult to duplicate because the metals numbers are basically tied into the level of sediment present in the original sample. Additionally, as the remainder of the sample is stored under acidic conditions, some of the metals may continue to leach out into the water making any reproduction of the original number impossible. The rough amount of sediment present in the samples is as follows:

06330-001: Trace

H. Falek-Peyman

Inorganic Manager

June 12, 2008

Date

0004

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: ESI, INC.

Project: ST. MARY'S HOSPITAL (PBI)-R8MM

Lab Case No.: E08-06330

| Lab ID: | | 06330-001 | | |
|------------------|--|------------|------------------|-------|
| Client ID: | | SMP-0608 | | |
| Matrix: | | Aqueous | | |
| Sampled Date | | 6/5/08 | | |
| PARAMETER(Units) | | Conc | Q | MDL |
| Metals (Units) | | (mg/L-ppm) | | |
| Zinc | | 0.101 | 0.101 | 0.008 |

0005

INTEGRATED ANALYTICAL LABORATORIES, LLC.

Zinc

Client/Project: ESI/ST. MARY'S HOSPITAL (PBI)-R8MM

Batch #: 269

Date Received: 06/05/08 10:30

Method: 200.8

| Lab ID | Client ID | Result | Q | DF | Matrix | MDL | % Moist | Date Analyzed |
|-----------|-----------|--------|---|----|--------------|-------|------------|------------------|
| 06330-001 | SMP-0608 | 0.101 | 1 | | Aqueous-mg/L | 0.008 | 100 | 06/12/08 |

00006

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL**BLANK 1 RESULTS SUMMARY**

Batch (Page) #: 269
Associated Lab 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327
Case for Blank 1: 06328, 06329, 06330, 06331, 06332, 06333, 06334, 06508

Matrix: Aqueous

Unit: ppb (µg/L)

Method: 200.8/200.7

| ANALYTE | SAMPLE MDL | REAGENT BLANK |
|----------|---------------|------------------|
| Cadmium | 1.00 | ND |
| Chromium | 8.00 | ND |
| Copper | 8.00 | ND |
| Iron | 100 | ND |
| Lead | 2.00 | ND |
| Mercury | 0.500 | ND |
| Nickel | 4.00 | ND |
| Zinc | 8.00 | ND |

Associated Sample for Blank 1:

06247-001; 06248-001; 06249-001; 06250-002~003
06251-002; 06252-002; 06253-002; 06270-001
06277-001; 06327-001; 06328-001; 06329-001
06330-001; 06331-001; 06332-001; 06333-001
06334-001; 06508-001~002

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E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL
INITIAL & CONTINUING CALIBRATION BLANKS VERIFICATION

Batch (Page) #: 269

Lab Case: 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327, 06328, 06329
06330, 06331, 06332, 06333, 06334, 06508Matrix: AqueousMethod: 200.8/200.7Concentration/Units: ppb (µg/L)

| ANALYTE | INST. MDL | ICB | CCB | CCB | CCB | CCB | CCB |
|----------|-----------|-----|-----|-----|-----|-----|-----|
| Cadmium | 0.250 | ND | ND | ND | ND | ND | ND |
| Chromium | 2.00 | ND | ND | ND | ND | ND | ND |
| Copper | 2.00 | ND | ND | ND | ND | ND | ND |
| Iron | 50.0 | ND | ND | ND | | | |
| Lead | 0.500 | ND | ND | ND | ND | ND | ND |
| Nickel | 1.00 | ND | ND | ND | ND | ND | ND |
| Mercury | 0.250 | ND | ND | | | | |
| Zinc | 2.00 | ND | ND | ND | ND | ND | ND |

0008

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL**INITIAL & CONTINUING CALIBRATION BLANKS VERIFICATION**

Batch (Page) #: 269

Lab Case: 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327, 06328, 06329
06330, 06331, 06332, 06333, 06334, 06508Matrix: AqueousMethod: 200.8/200.7Concentration/Units: ppb (µg/L)

| ANALYTE | INST. MDL | CCB | | | | | |
|----------|-----------|-----|--|--|--|--|--|
| Cadmium | 0.250 | ND | | | | | |
| Chromium | 2.00 | ND | | | | | |
| Copper | 2.00 | ND | | | | | |
| Lead | 0.500 | ND | | | | | |
| Nickel | 1.00 | ND | | | | | |
| Zinc | 2.00 | ND | | | | | |

0009

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL
INITIAL & CONTINUING CALIBRATION VERIFICATION

Batch (Page) #: 269

Lab Case: 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327, 06328, 06329
 06330, 06331, 06332, 06333, 06334, 06508

Matrix: Aqueous Method: 200.8/200.7 Units: ppb (ug/L)

| ANALYTE | INST. MDL | ICV & CCV TRUE | ICV | | CCV | | CCV | | CCV | |
|----------|--------------|-------------------|-------|------|-------|------|-------|------|-------|------|
| | | | FOUND | % R | FOUND | % R | FOUND | % R | FOUND | % R |
| Cadmium | 0.250 | 10.0 | 9.38 | 93.8 | 9.39 | 93.9 | 9.25 | 92.5 | 9.70 | 97.0 |
| Chromium | 2.00 | 20.0 | 20.5 | 103 | 20.8 | 104 | 20.5 | 103 | 20.1 | 101 |
| Copper | 2.00 | 50.0 | 50.0 | 100 | 50.4 | 101 | 50.3 | 101 | 49.5 | 99.0 |
| Iron | 50.0 | 10000 | 9960 | 99.6 | 9310 | 93.1 | 9430 | 94.3 | | |
| Lead | 0.500 | 10.0 | 10.2 | 102 | 10.1 | 101 | 10.0 | 100 | 9.62 | 96.2 |
| Nickel | 1.00 | 80.0 | 78.0 | 97.5 | 78.7 | 98.4 | 78.7 | 98.4 | 77.0 | 96.3 |
| Mercury | 0.250 | 5.00 | 4.87 | 97.4 | 4.75 | 95.0 | | | | |
| Zinc | 2.00 | 40.0 | 40.3 | 101 | 40.3 | 101 | 39.8 | 99.5 | 40.1 | 100 |

(1) Control Limits: Mercury 80-120; Other Metals 90-110

0010

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL
INITIAL & CONTINUING CALIBRATION VERIFICATION

Batch (Page) #: 269

Lab Case: 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327, 06328, 06329
 06330, 06331, 06332, 06333, 06334, 06508

Matrix: AqueousMethod: 200.8/200.7Units: ppb (ug/L)

| ANALYTE | INST. MDL | ICV & CCV TRUE | CCV | | CCV | | CCV | | | |
|----------|--------------|-------------------|-------|------|-------|------|-------|------|-------|-----|
| | | | FOUND | % R | FOUND | % R | FOUND | % R | FOUND | % R |
| Cadmium | 0.250 | 10.0 | 9.85 | 98.5 | 9.30 | 93.0 | 9.09 | 90.9 | | |
| Chromium | 2.00 | 20.0 | 19.3 | 96.5 | 19.9 | 99.5 | 19.7 | 98.5 | | |
| Copper | 2.00 | 50.0 | 47.7 | 95.4 | 48.7 | 97.4 | 48.5 | 97.0 | | |
| Lead | 0.500 | 10.0 | 9.64 | 96.4 | 9.70 | 97.0 | 9.50 | 95.0 | | |
| Nickel | 1.00 | 80.0 | 74.5 | 93.1 | 75.6 | 94.5 | 74.8 | 93.5 | | |
| Zinc | 2.00 | 40.0 | 39.2 | 98.0 | 40.0 | 100 | 39.5 | 98.8 | | |

(1) Control Limits: Mercury 80-120; Other Metals 90-110

0011

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL**SPIKE SAMPLE RECOVERY**

Batch (Page) #: 269

Lab Case: 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327

06328, 06329, 06330, 06331, 06332, 06333, 06334, 06508

Matrix: AqueousConcentration/Units: ppb (µg/L)

| ANALYTE | SSR1 | SR1 | %R1 | SA1 | SSR2 | SR2 | %R2 | SA2 | CONTROL LIMIT %R |
|----------|-------|------|-----|------|------|------|------|------|---------------------|
| Cadmium | | | | | 312 | ND | 78.0 | 400 | 75-125 |
| Chromium | | | | | 375 | ND | 93.8 | 400 | 75-125 |
| Copper | | | | | 354 | ND | 88.5 | 400 | 75-125 |
| Iron | 10900 | 2540 | 105 | 8000 | | | | | 75-125 |
| Lead | | | | | 368 | 2.15 | 91.5 | 400 | 75-125 |
| Mercury | | | | | 8.69 | ND | 86.9 | 10.0 | 75-125 |
| Nickel | | | | | 352 | ND | 88.0 | 400 | 75-125 |
| Zinc | | | | | 376 | 24.7 | 87.8 | 400 | 75-125 |

SSR = Spike Sample Result

SA = Spike Added

NC = Non-calculable % R; Sample concentration > 4 x Spike Concentration.

SR = Sample Result

%R = Percent Recovery

QC Sample 1 06270-001

QC Sample 1 for following samples:

06247-001; 06248-001; 06249-001; 06250-002~003

06251-002; 06252-002; 06253-002; 06270-001

06277-001

QC Sample 2 06508-001

QC Sample 2 for following samples:

06327-001; 06328-001; 06329-001; 06330-001

06331-001; 06332-001; 06333-001; 06334-001

06508-001~002

0012

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL DUPLICATE SAMPLE RECOVERY

Batch (Page) #: 269

Lab Case: 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327

06328, 06329, 06330, 06331, 06332, 06333, 06334, 06508

Matrix: AqueousConcentration/Units: ppb (µg/L)

| ANALYTE | CONTROL LIMIT 1 | S1 | D1 | RPD1 | CONTROL LIMIT 2 | S2 | D2 | RPD2 |
|----------|--------------------|------|------|------|--------------------|------|------|------|
| Cadmium | | | | | NA | ND | ND | NC |
| Chromium | | | | | NA | ND | ND | NC |
| Copper | | | | | NA | ND | ND | NC |
| Iron | 20 | 2540 | 2510 | 1.19 | | | | |
| Lead | | | | | 20 | 2.15 | 2.09 | 2.83 |
| Mercury | | | | | NA | ND | ND | NC |
| Nickel | | | | | NA | ND | ND | NC |
| Zinc | | | | | 20 | 24.7 | 23.2 | 6.26 |

S1 = Sample 1

D1 = Duplicate 1

NA = Not Applicable

NC = Non-calculable RPD due to result (s) less than the detection limit.

QC Sample 1 06270-001

QC Sample 1 for following samples:

06247-001; 06248-001; 06249-001; 06250-002~00306251-002; 06252-002; 06253-002; 06270-00106277-001

S2 = Sample 2

D2 = Duplicate 2

QC Sample 2 06508-001

QC Sample 2 for following samples:

06327-001; 06328-001; 06329-001; 06330-00106331-001; 06332-001; 06333-001; 06334-00106508-001~002

0013

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL **LABORATORY CONTROL SAMPLE**

Batch (Page) #: 269

Lab Case: 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327, 06328, 06329

06330, 06331, 06332, 06333, 06334, 06508

Matrix: Aqueous

Unit: ppb (µg/L)

| ANALYTE | BSW1 | | | BSW2 | | |
|----------|------|-------|-------|------|-------|-------|
| | TRUE | FOUND | %R(1) | TRUE | FOUND | %R(1) |
| Cadmium | 400 | 349 | 87.3 | | | |
| Chromium | 400 | 373 | 93.3 | | | |
| Copper | 400 | 368 | 92.0 | | | |
| Iron | 8000 | 8310 | 104 | | | |
| Lead | 400 | 347 | 86.8 | | | |
| Mercury | 10.0 | 9.95 | 99.5 | | | |
| Nickel | 400 | 362 | 90.5 | | | |
| Zinc | 400 | 376 | 94.0 | | | |

(1) Control Limits % Recovery = 85-115%

BSW1

06247-001; 06248-001; 06249-001; 06250-002~003

06251-002; 06252-002; 06253-002; 06270-001

06277-001; 06327-001; 06328-001; 06329-001

06330-001; 06331-001; 06332-001; 06333-001

06334-001; 06508-001~002

BSW2

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL**SERIAL DILUTIONS & POST SPIKES 2**

Batch (Page) #: 269

Lab Case: 06327, 06328, 06329, 06330, 06331, 06332, 06333, 06334, 06508

Matrix: AqueousConcentration/Units: ppb (µg/L)

| ANALYTE | SERIAL DILUTION | | % | POST SPIKE | | % |
|----------|-----------------|-----|---|------------|-----|------|
| | SR | SDR | | SPR | SA | |
| Cadmium | ND | | | 312 | 400 | 78.0 |
| Chromium | ND | | | 383 | 400 | 95.8 |
| Copper | ND | | | 362 | 400 | 90.5 |
| Lead | 2.15 | | | 381 | 400 | 94.7 |
| Nickel | ND | | | 357 | 400 | 89.3 |
| Zinc | 24.7 | | | 381 | 400 | 89.1 |

SR = Sample Result
SDR = Sample Dilution Result

SPR = Sample Post Spike Result
SA = Spike Added

Control Limits: (+) or (-) 10% Difference or 75 - 125% Recovery

QC Sample2 : 06508-001

QC Sample 2 for following samples:

06327-001; 06328-001; 06329-001; 06330-001

06331-001; 06332-001; 06333-001; 06334-001

06508-001~002

0015

E08-06330

INTEGRATED ANALYTICAL LABORATORIES, LLC.

METALS QUALITY CONTROL**IPC**

Batch (Page) #: 269

Lab Case: 06247, 06248, 06249, 06250, 06251, 06252, 06253, 06270, 06277, 06327, 06328, 06329
06330, 06331, 06332, 06333, 06334, 06508Matrix: AqueousUnit: ppb (µg/L)

| ANALYTE | BSW1 | | |
|----------|------|-------|-------|
| | TRUE | FOUND | %R(1) |
| Cadmium | 50.0 | 49.2 | 98.4 |
| Chromium | 50.0 | 50.5 | 101 |
| Copper | 50.0 | 51.7 | 103 |
| Iron | 5000 | 5030 | 101 |
| Lead | 50.0 | 47.9 | 95.8 |
| Mercury | 2.50 | 2.40 | 96.0 |
| Nickel | 50.0 | 49.7 | 99.4 |
| Zinc | 50.0 | 50.8 | 102 |

(1) Control Limits = 95-105%

0016

CHAIN OF CUSTODY

No. 6530
(Lab Use Only)**ENVIRO-SCIENCES, INC.**111 Howard Boulevard, Suite 108
Mount Arlington, NJ 07856
Phone: 973-398-8183
Fax: 973-398-8037CLIENT: ST. MARY'S HOSPITAL (PBI)PROJECT NAME: R8MMDELIVERABLES: Reduced Data DeliverablesSEND REPORT TO: Bob Lawrence E-Mail: RLawrenc@Enviro-Sciences.com

| Sample Identification | | Sampling Location Point | Sample Date | Sampling Time | | | Sample Matrix | Sample Type | | Analysis Required (code #) | # of Containers |
|-----------------------|----------|-------------------------|-------------|---------------|--------|--------|---------------|-------------|------|----------------------------|-----------------|
| Lab | Field ID | | | | A M | P M | | Comp. | Grab | | |
| 01 | SMP-0608 | Process Wastewater | 6/5/08 | 8:45 | | | Aqueous | X | | 19 | 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Note: PVSC Threshold Limits RequiredMethod of Relinquishment: Drop OffName of Laboratory: IALRelinquished
By: (Sign): Raggy J.Received
By: (Sign): J. M. J.Date/Time: 6/5/08 10:30Relinquished To Lab
By: (Sign): _____Received For Lab
By: (Sign): _____

Date/Time: _____

| Analysis | Code |
|---------------------------|------|
| Priority Pollutant Metals | 01 |
| Petroleum Hydrocarbons | 02 |
| Volatile Organics + 15 | 03 |
| Base Neutrals + 15 | 04 |
| Acid & Base / Neutrals | 05 |
| VO+15 + MTBE / TBA | 06 |
| Antimony | 07 |
| Arsenic | 08 |
| Beryllium | 09 |

| Analysis | Code |
|----------|------|
| Cadmium | 10 |
| Chromium | 11 |
| Copper | 12 |
| Lead | 13 |
| Mercury | 14 |
| Nickel | 15 |
| Selenium | 16 |
| Silver | 17 |
| Thallium | 18 |

| Analysis | Code |
|-----------|------|
| Zinc..... | 19 |

Note: Report on CD NOT Required

\\GROVE\Shared\Project Files\Hospital Group\Custody Chains\Monthly\1 month chain SMP.doc, 5/30/2008

0017

PROJECT INFORMATION

Case No. **E08-06330**Project **ST. MARY'S HOSPITAL (PBI)-R8MM**

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Customer ESI, INC. | P.O. # |
| Contact Bob Lawrence | Received 6/5/2008 10:30 |
| E-Mail rlawrenc@enviro-sciences.com <input checked="" type="checkbox"/> EMail EDDs | Verbal Due 6/19/2008 |
| Phone (973) 398-8183 Fax 1(973) 398-8037 | Report Due 6/26/2008 |
| Report To | Bill To |
| 111 Howard Blvd | 111 Howard Blvd |
| Suite 108 | Suite 108 |
| Mount Arlington, NJ 07856 | Mount Arlington, NJ 07856 |
| Attn: Bob Lawrence | Attn: Bob Lawrence |
| Report Format Reduced | |
| Additional Info <input type="checkbox"/> State Form <input type="checkbox"/> Field Sampling <input type="checkbox"/> Conditional VOA | |

| <u>Lab ID</u> | <u>Client Sample ID</u> | <u>Depth Top / Bottom</u> | <u>Sampling Time</u> | <u>Matrix</u> | <u>Unit</u> | <u># of Containers</u> |
|---------------|-------------------------|---------------------------|----------------------|---------------|-------------|------------------------|
| 06330-001 | SMP-0608 | n/a | 6/5/2008@08:45 | Aqueous | mg/L | 1 |

| <u>Sample #</u> | <u>Tests</u> | <u>Status</u> | <u>QA Method</u> |
|-----------------|--------------|---------------|------------------|
| 001 | Zinc - Zn | Run | 200.8 |

06/05/2008 15:53 by kim - NOTE 1

IF CD APPEARS ON INVOICE, PLEASE DELETE.

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: E 08

06330

CLIENT:

RST

COOLER TEMPERATURE: 2° - 6°C: ☒ (See Chain of Custody)

Comments

COC: COMPLETE / INCOMPLETE

KEY

☒ = YES/NA
☒ = NO

- ☒ Bottles Intact
- ☒ no-Missing Bottles
- ☒ no-Extra Bottles

- ☒ Sufficient Sample Volume
- ☒ no-headspace/bubbles in VOs
- ☒ Labels intact/correct
- ☒ pH Check (exclude VOs)¹
- ☒ Correct bottles/preservative
- ☒ Sufficient Holding/Prep Time¹

☐ Sample to be Subcontracted

¹ All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY:

INITIAL

RS

DATE

6/5/08

CORRECTIVE ACTION REQUIRED:

YES

☐

(SEE BELOW)

NO

☐

CLIENT NOTIFIED:

YES

☐

Date/ Time:

NO

☐

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY:

INITIAL

ES

DATE

6/5

REV 02/05

0019

Laboratory Custody Chronicle

IAL Case No.

E08-06330Client ESI, INC.Project ST. MARY'S HOSPITAL (PBI)-R8MMReceived On 6/ 5/2008@10:30

Department: Metals

Zinc - Zn

06330-001 Aqueous

Prep. Date

6/11/08

Analyst

Lisa

Analysis Date

6/12/08

Analyst

Helge

Review and Approval:

